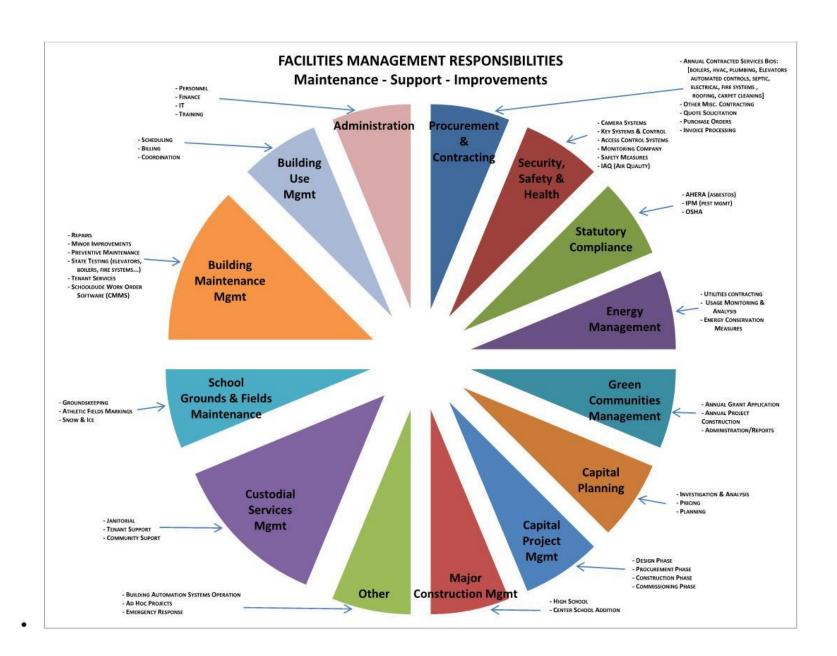
Town of Hanover Facilities Department

Robert F. Murray, PE Facilities Engineering Manager

Presentation to the Board of Selectmen 4/6/16



1. FACILITIES DEPARTMENT

a. FY16 Budget: \$3,635,096

i. Salary: \$1,783,472

ii. Expenses: \$1,851,624

- b. Personnel (36)
 - i. Administrative Assistant
 - ii. Deputy Superintendent
 - 1. Foreman, Maintenance
 - a. 3 Skilled Maintenance Workers
 - 2. Foreman, Custodial
 - a. 22 Full Time Custodians + 6 PT Custodians

c. Buildings/Facilities (~24)

- i. 6 School Facilities
 - 1. Buildings
 - 2. Grounds
- ii. 18 Municipal buildings
 - 1. Town Hall
 - 2. JC Library
 - 3. Senior Center
 - 4. Police Station
 - 5. Stetson House
 - 6. 4 Fire Stations
 - 7. 5 Water Dept buildings
 - 8. Highway (Ames Way)
 - 9. Transfer Station
 - 10. Recreation Dept Facilities
 - 11. FPP Pavilion

2. Administration

- a. FY16: Assume Full Departmental Administration
 - i. Monthly spending: ~ \$4 500,000
 - 1. Ordering, Processing, Accounting & Verification
 - ii. Weekly personnel payroll
 - 1. ~ \$55,000/week

3. Facilities Rental Management

- a. Process all unscheduled use of school facilities
 - i. Interior rooms
 - ii. Ball fields
- b. Facilities Scheduling software
 - i. Approval, pricing, coordination, activity support, invoicing, accounting
 - ii. Payments to School Building Use Revolving Account
 - 1. Funds Custodial Overtime for events

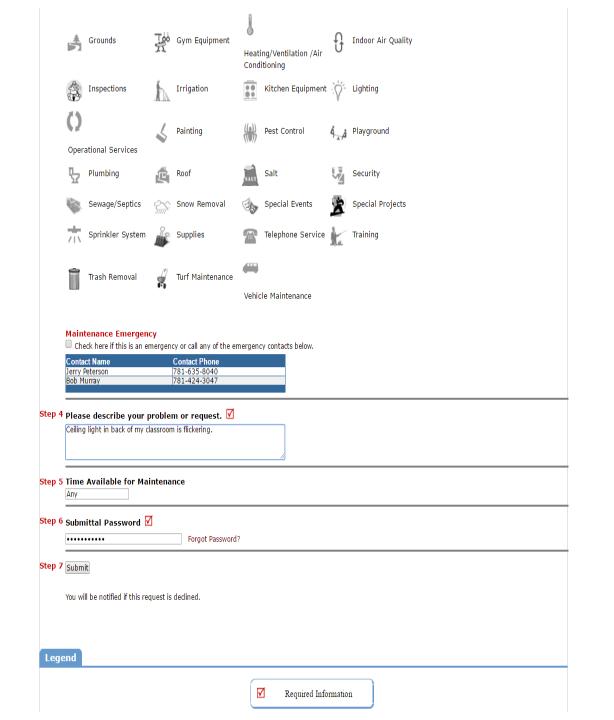
4. Building Maintenance Management

a. Work Order System: SchoolDude.com



Hanover Facilities Department

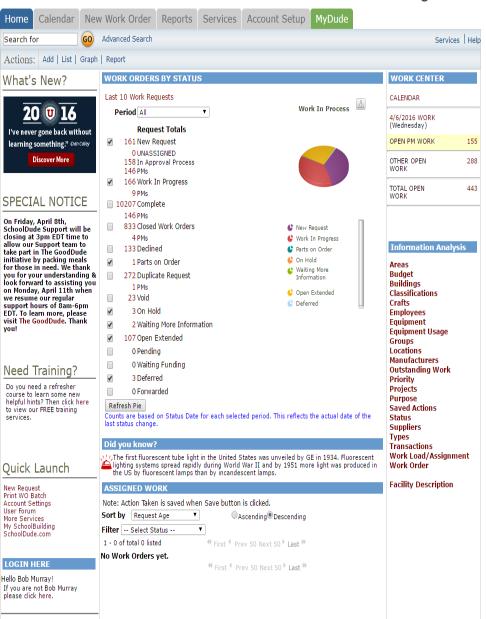
Maint Request	Schedule Requ	est My Requests	Settings	
				HEL
				Legend ▼
Maintenance Re	quest			
Planitenance Re	quest			
USE THIS FORM involving IT, cor Service and we	l TO SUBMIT WORK REQ nputer, or audio-visual s intend to address your r	UESTS FOR MATTERS INVO ystems as they are handle request promptly and to yo	OLVING MAINTENAN d through other me our full satisfaction.	pt, Maintenance Request Page NACE AND CUSTODIAL NEEDS IN YOUR BUILDING. (Please do not submit request neans.) The Town of Hanover Facilities Department is committed to Customer If you are not satisfied with our service we invite you to contact us at any time: pering Manager) at 781-857-5706. Thank you.
Step 1 Please be your First Name	ourself, click here if	f you are not Bob Mur Last Name Murray	_ EI	E mail robert.murray@hanover-ma.gov
Phone 🗹		Pager		Mobile Phone
781-857-5706		781-635-2753		
Step 2 Location				
Cedar Element	ary School ▼			
Area 1st Floor	▼			Area/Room Number 🗹
	or my area entries for m	ny next new request entry.	R	Room 11
Step 3 Select Proble		ry next new request entry.		
Select Proble	ет туре: 🔼			
Mainten	ance Help Desk:			
	aintenance Emergency C blem type below that be			
(a) Alarm		CFr.	Boiler	
		644460		Building Automation
Carpen	try 🚗 Ce	illings	Clocks/Bells	Custodial
Data Re	epair	\bigcirc	Electrical	i Elevators
ш	Doors an	nd Hardware		***
Equipm	ent	ń	Fire Extinguishers	rs 🔪 Floor Care
(K)		m System	,	*

















Home Calendar New Work Order Reports Service	es Account Setup MyDude	
Search for GO Advanced Search		Services Help
Actions: Add List Graph Report		
Work Order Shortcuts ▼ Related Links ▼		Legend ▼
Work order Shortcuts Related Links		Legend
Add/Update Work Order		
Work Order: 10000		
Save Reset First Prev Next Last		
Status 🔽	Priority 🔽	
Complete ▼	Medium ▼	
Status Date	Created By	
5/9/2015 12:20:05 PM Status Last Changed By	Jeff Botelho Date Created	
leff Botelho	6/8/2015 3:24:43 PM	
Date Last Printed	Last Changed By	
5/9/2015 7:48:40 AM	Jeff Botelho	
Request Info		
ocation		
High School ▼		
uilding		
Select Building ▼		
rea Athletic Field ▼	Area Number Concession Stand	
equest Date		
/8/2015	Emergency?	
equest Description 🗹		
lot water has strong odor of sulfur		
· Back to Shortcuts		
Deferral		
	erred By	
P P		
leason for Deferral		
Back to Shortcuts		
Contact Info		
lame Select "OTHER" if requester not in list and type their name in field below.)		
eff Botelho		
irst Name Last Name	Fmail	

Contact Info			
Name	and the Park and Roses Marks are as the World Bullet		
	not in list and type their name in field below	W.)	
Jeff Botelho	♣ ⊕	- "	
First Name	Last Name	Email	
Jeff	Botelho	botelho@hanoverdpw.org	
Phone	Pager	Cellular Phone	
7812640521		7812640521	
∕∕⊠ Survey Requester Nov	l .		
▶ Back to Shortcuts			
Assignment Info			
Assigned To			
Botelho, Jeff	▼		
Route for approval or re			
	view?	Downstand Completion	
Target Start Date	_	Requested Completion	
6/8/2015			
Target Completion		Actual Completion	
	THE	6/9/2015	
	<u></u>		
Estimated Costs		Estimated Hours	
0.00	Astro-Large control (0.00	
Actual Costs: 60.45 (Note: Total Costs: 60.45	Actual costs exclude tax amounts.)	Actual Hours: 2.50	
▶ Back to Shortcuts			
Budget Info			
Purpose		Craft	
Select Purpose	▼	Plumbing ▼	
Budget		Facility Description	
Select Budget Account	▼	Select Facility Description ▼	
Project		Equipment	
	▼		
Select Project			
Classification	_		
< Select Classification>			
Туре			
< Select Type>	▼		
▶ Back to Shortcuts			
Action Taken			
Action			
	I flue piping from tank and drained. Added	5 pints of hydrogen peroxide and	
	er and ran to check for leaks.	s pints of nytrogen peroxide and	
		<u>//</u>	
▶ Back to Shortcuts			
Message Center			
_			
New Message	Click on a Message to Reply		
	Work Order Completion Notification (10000) SchoolDude Message Center 6/9/2015 12:20:05 PM		
	(0)		
	™ Work order 10000 is Complete Scho	olDude Message Center 6/9/2015 12:20:05 PM (0)	
	⊠ WO Assignment - 10000 SchoolDud	le Message Center 6/8/2015 3:24:43 PM (0)	
▶ Back to Shortcuts			
P DACK TO SHOUTCUTS			
January Makes			
Journal Notes			
/ New Note			

4. Building Maintenance Management

- a. Work Order System: SchoolDude.com (i.e. SDude)
 - i. MySchoolBuilding.com work request system for all employees
 - ii. SDude MaintenanceDirect department work order system
- b. FY15: 2401 work orders completed
- c. FY16: 1905 work orders completed to date

4. Building Maintenance Management

- a. Work Order System: SchoolDude.com
- b. ...
- C. ...
- d. New: Computerized Preventive Maintenance Program
 - i. SDude PreventiveMaintenanceDirect.com
 - ii. ~1,100 items in 17 buildings
 - iii. Monthly, prints out work orders from MaintenanceDirect
 - 1. Work order has PM procedures/instructions
 - iv. Generally, we have 1 mechanic on PM's every day
 - v. Some equipment serviced that has never been before
 - vi. Critical requirement for MSBA schoolbuilding funding

5. School Grounds & Fields Maintenance

- a. Maintain all school grounds
- b. Maintain all school ball fields and athletic venues
- c. Turf field maintenance shared, contract & staff
- d. Snow & ice control for all school roads & lots

6. Custodial Services Management

- a. Personnel
 - i. 28 custodians: 22 FT + 6 PT
 - 1. Town Hall custodian assists at Fire HQ
 - 2. Sylvester School night custodian, increased from 30 to 40 hours
- b. Procedures
 - i. Foreman: hospital background; great instructor
- c. Supplies
 - i. Standardization
 - ii. Pricing participate in Quincy Collaborative Bid, very competitive pricing
 - iii. Inventory control close monitoring, avoids excesses
- d. Tenant support setting up, moving, etc.

7. Statutory Compliance

- a. AHERA (Asbestos monitoring)
- b. IPM (Integrated Pest Management)
- c. EPA Source Emissions
- d. NEW: LCCA (Lead Contamination Control Act)
 - i. Sample water from all taps where water is accessible to students
 - ii. Test for lead & copper
 - iii. Lead "Action Limit": 0.015 ppm
 - iv. Binder in every school
 - 1. Floor plan of school piping system (domestic water)
 - 2. Floor plan marking location of every tap (assign unique number to each)
 - 3. Test results
 - 4. Remediation efforts

8. Security, Safety & Health

- a. Maintain security systems in all school buildings and town hall
- b. Keys, prox cards, codes
- c. Alarm monitoring

9. Procurement & Contracting

- a. Annual bid contracts:
 - a. Electrician, boiler service, HVAC service, septic service, fire systems, elevators/lifts, roofing, plumbing
 - b. Other annual contracts, lower value: security systems, UPS (high school), phone, fire extinguishers, others
 - c. Planning 2 new contracts this round: Pest control, and emergency generator servicing

10. Energy Management

- a. Purchase supply of gas & electric
- b. Management of Building Automated Controls

11. Green Communities Management

- a. Goal: 20% reduction in energy use.
- b. Since 2012: 30 projects, \$671,673 Total Project Value, \$515,547 grants (DOER) + \$147,412 utility incentives + \$8,714 Town funded.
- c. Savings 31,534 therms of Natural Gas; 338,259 kWh electricity
 - a. Estimated savings: \$86,000/year

- a. Green Communities projects this year (just completed):
 - i. Lights in 3 school gyms converted to LED w motion sensors
 - 1. 234 watts \rightarrow 88 watts per light
 - ii. Lights in Highway/Ames Way converted to LED w motion sensors
 - i. Interior
 - ii. Exterior (including canopy on gas pumps)
 - iii. Lights in Water Bldg (219 Winter) converted to LED w motion sensors
 - iv. Lights in COA:
 - 1. Main Hall, 18 Pendant Lights converted to LED 304 \rightarrow 90 watts
 - 2. Parking lot, 27 pole lights converted to LED 190 \rightarrow 50 watts
 - v. Replaced heating boiler & gas water heater at Fire HQ with new high efficiency boiler/water heater (83% efficiency → 95% efficiency)

- a. Proposed for FY17
 - i. 4 Projects
 - i. Retrofit lighting, JC Library and Middle School
 - ii. HVAC, Middle School
 - iii. Replace boiler & water heater at Police Dept with high efficiency boiler
 - ii. \$275,000 total cost
 - 1. Green Communities grant \$205,322
 - 2. Utilities incentives \$69,768

12. Capital Planning

- a. DRA study requires updating
- b. Consultant hired to assist
- c. Proposed projects
- d. Project Status

FUNDED CAPITAL ARTICLES, WORK UNDERWAY OR COMPLETE

ATM	Title	Status	Approp.	Paid/ Encumbered	Balance
7	STETSON HOUSE FUND YR #11 - To be used for improvements, maintenance, and repairs to building and property at 514 Hanover St.	Lighting upgrade project (by SS Votek) underway.	1,000	140	860
8	STETSON HOUSE FUND YR #11 - To be used for improvements, maintenance, and repairs to building and property at 514 Hanover St.	Lighting upgrade project (by SS Votek) underway.	1,000	0	1,000
9	STETSON HOUSE FUND YR #11 - To be used for improvements, maintenance, and repairs to building and property at 514 Hanover St.	Lighting upgrade project (by SS Votek) underway.	1,000	0	1,000
12	Middle Schl Floor Tile	Phase 1 completed; Phase 2 in design	490,000	146,616	343,384
13	Stetson House Air Conditioning	First floor complete; second floor pends	18,000	0	18,000
14	Fire HQ - Renovate Kitchen	Complete (closed)	50,000	50,000	0
14	Schools - Energy Mgmt Controls	Partially complete	120,000	8,754	111,246
14	Fire HQ - Generator	Construction imminent	140,000	112,000	132,955
15	Stetson House Electric Upgrade	Complete (closed)	10,000	805	9,195
15	Facilities Cargo Van Purch/Equip	Ordered; delivery imminent	29,000	0	29,000
15	Facilities 4x4 Rack Body Truck	Delivered (closed)	57,000	51,588	5,412
15	Town Hall - Upgrade Door Locks	Installation in 2 ~ weeks	70,000	61,906	70,000
15	Town Hall Restoration	Construction docs under development	1,085,000		

FUNDED CAPITAL ARTICLES, WORK PENDING			
ATM	Title	Status	Approp.
14	Town Hall - Hearing Room Improvements	In design	25,000
14	Town Hall - Replace Fire Alarm	Spec under development	18,000
15	Cedar School Roof	Spec under development	350,000
15	Middle Schl - Install Safety Bollards	Spec under development	20,000
15	Town Hall Security System	Spec under development	35,000
15	Library - Repair Window Curtain Wall	Spec under development	30,000

TOWN OF HANOVER, NEW KEYWAY MASTER PLAN, ALL BUILDINGS Town Buildings **TOWN HALL SUBSET** Super Masterkey Other Town Buildings Town Hall E (9) # Master AH (5) EA (3) EB (2) EC (3) ED (3) EE (4) EF (3) Keys Group **Exterior Doors** Town Manager/BOS IT Finance Community Svcs Clerk House Services Town Manager Office (special Office, IT Network (from All Exterior Doors Veterans Office Clerk All Bathrooms Assessor Office key) Corridor) Office, IT Network (from Tn Mgr/BOS Suite Entry Assessor Office Planning Board Clerk Storage Closet Advisory Rm) Storage Closet (Key Box) Office, IT (Tom Nee) Treasurer Office (dual) Health Office Breakroom Selectmen Office (From Suite) Treasurer Office (single) Health Office (Suite Entry) Mail Room Selectman Office (From Hearing Office (Chelsea Stevens) Connecting Planning From Kitchen Room) {Hallway} Office (Chelsea Stevens) Hearing Room Storage Closet Health Office Copy Room (From Conference) Hearing Room ZBA Conference Room Custodian Closet Conservation Office Suite Tax Collector Entrance Vestibules Conservation Inner Office Garage, from Corridor SLOP SINK / COPY ROOM Hearing Room (Left) Hearing Room (Right) Cross Corridor

Storage inside

Nurse

Recreation Office

ISD Building Department

ISD Building Department

ISD Building Department

ISD Building Department SLOP SINK / COPY ROOM Corridor From Elevator To

Access Control Panel)

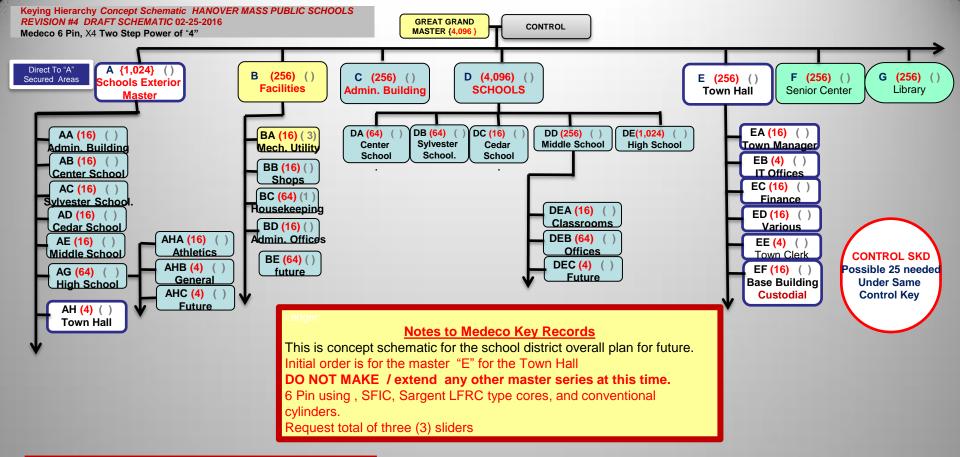
ELEVATOR / STORAGE

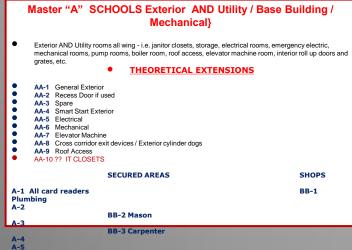
ELEVATOR Machine Room

Offices

TEL / Electric. Storage Closet (Electric /

Boiler Room





Ledger:

AAB (16) (10)
1st Floor

Red is number of combinations for group.
Grey number of actual assigned combinations on initial order.

Size of Master groups; Use exponent of "5"
4, 16, 64, 256, 1024, 4,096,.